R16

Reg. No:

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
B.Tech II Year II Semester Supplementary Examinations March-2021
OPERATING SYSTEMS
(Computer Science and Engineering)

Time: 3 hours   Max. Marks: 60

(Answer all Five Units **5 x 12 = 60** Marks)

UNIT-I

1. a Explain System calls.   6M
   b Describe Functions of Operating Systems.   6M

OR

2. a Explain difference between Multitasking and Multi Programming.   6M
   b Explain Process Management.   6M

UNIT-II

3. a Explain Multi-Threading models.   8M
   b Explain about Scheduling Criteria.   4M

OR

4. a Evaluate FCFS CPU Scheduling algorithm for given Problem

Process	P1	P2	P3	P4
Process Time	24	3	5	6

   7M

   b Write about Threads.   5M

UNIT-III

5. a Write about Deadlock Prevention Methods.   6M
   b Explain semaphore.   6M

OR

6. a Explain how recovery from deadlock.   5M
   b What is critical section problem? Explain with example.   7M

UNIT-IV

7. a Explain about Paging.   6M
   b What is contiguous memory allocation? Explain it.   6M

OR

8. a What is MFT? Explain with Example.   6M
   b What is file sharing? Explain about it.   6M

UNIT-V

9. a Write about Insider Attacks.   6M
   b Define Protection & Security.   6M

OR

10. a Discuss about cryptography process.   6M
    b What is access matrix?   6M

*** END ***